



IFW16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/937,899A

DATE: 09/03/2004

TIME: 10:33:43

Input Set : A:\111SEQ.txt

Output Set: N:\CRF4\09032004\I937899A.raw

```

3 <110> APPLICANT: Koulu, Markku
4   Karvonen, Matti
5   Pesonen, Ullamari
6   Uusitupa, Matti
8 <120> TITLE OF INVENTION: Diagnosis of a Person's Risk of Developing Alcoholism
9   Based on Leucine7 to Proline 7 Polymorphism in the
10  Prepro-Neuropeptide Y Gene, and methods for the
11  prevention and Treatment of Alcoholism.
13 <130> FILE REFERENCE: 2630-111
15 <140> CURRENT APPLICATION NUMBER: 09/937,899A
16 <141> CURRENT FILING DATE: 2001-09-28
18 <150> PRIOR APPLICATION NUMBER: PCT/FI00/00260
19 <151> PRIOR FILING DATE: 2000-03-29
21 <150> PRIOR APPLICATION NUMBER: US 09/291,994
22 <151> PRIOR FILING DATE: 1999-04-15
24 <160> NUMBER OF SEQ ID NOS: 9
26 <170> SOFTWARE: PatentIn Ver. 2.0
28 <210> SEQ ID NO: 1
29 <211> LENGTH: 325
30 <212> TYPE: DNA
31 <213> ORGANISM: Homo sapiens
33 <400> SEQUENCE: 1
34 ccgcttcttc aggcagtgcc tggggcgggga ggggttggggt gtgggtggct ccctaagtcg 60
36 acactcgtgc ggctgcgggt ccagcccccct ccccccgcc ctcaggggcg ggaagtggcg 120
38 ggtgggagtc acccaagcgt gactgcccga ggccctcct gccgcggcga ggaagctcca 180
40 taaaagccct gtgcgcaccc gctctctgca ccccatccgc tggctctcac ccctcggaga 240
42 cgctcgcccg acagcatagt acttgccgcc cagccacgcc cgcgcgccag ccaccgtgag 300
44 tgctacgacc cgtctgtcta ggggt                                     325
47 <210> SEQ ID NO: 2
48 <211> LENGTH: 247
49 <212> TYPE: DNA
50 <213> ORGANISM: Homo sapiens
52 <400> SEQUENCE: 2
53 ccgctccgtt gagccttctg tgctgcgaga tgctaggtaa caagcgactg gggctgtccg 60
55 gactgacct cgccctgtcc ctgctcgtgt gcctgggtgc gctggccgag gcgtacctcc 120
57 ccaagccgga caaccgggc gaggacgcac cagcggagga catggccaga tactactcag 180
59 cgctgcgaca ctacatcaac ctcacaccca ggcagaggtg ggtgggaccg cgggaccgat 240
61 tccggga                                     247
64 <210> SEQ ID NO: 3
65 <211> LENGTH: 142
66 <212> TYPE: DNA
67 <213> ORGANISM: Homo sapiens
69 <400> SEQUENCE: 3

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70 acttgcttta aaagactttt ttttttccag atatggaaaa cgatctagcc cagagacact 60
72 gatttcagac ctcttgatga gagaaagcac agaaaatggt cccagaactc ggtatgacaa 120
74 ggcttgatgat ggggacattg tt 142
77 <210> SEQ ID NO: 4
78 <211> LENGTH: 300
79 <212> TYPE: DNA
80 <213> ORGANISM: Homo sapiens
82 <400> SEQUENCE: 4
83 ccttacatgc tttgcttctt atgttttaca ggcttgaaga ccctgcaatg tggatgatggg 60
85 aaatgagact tgcctctctgg ccttttcccta ttttcagccc atatttcacg gtgtaaaacg 120
87 agaatccacc catcctacca atgcatgcag ccactgtgct gaattctgca atgttttcc 180
89 ttgtcatcat tgtatatatg tgtgtttaaa taaagtatca tgcattcaaa agtgtatcct 240
91 cctcaatgaa aaatctatta caatagttag gattattttc gttaaactta ttattaacaa 300
94 <210> SEQ ID NO: 5
95 <211> LENGTH: 551
96 <212> TYPE: DNA
97 <213> ORGANISM: Homo sapiens
99 <220> FEATURE:
100 <221> NAME/KEY: CDS
101 <222> LOCATION: (87)..(377)
103 <220> FEATURE:
104 <221> NAME/KEY: sig_peptide
105 <222> LOCATION: (87)..(170)
107 <400> SEQUENCE: 5
108 accccatccg ctggctctca cccctcggag acgctcgccc gacagcatag tacttgccgc 60
110 ccagccacgc ccgcgcgcca gccacc atg cta ggt aac aag cga ctg ggg ctg 113
111 Met Leu Gly Asn Lys Arg Leu Gly Leu
112 1 5
114 tcc gga ctg acc ctc gcc ctg tcc ctg ctc gtg tgc ctg ggt gcg ctg 161
115 Ser Gly Leu Thr Leu Ala Leu Ser Leu Leu Val Cys Leu Gly Ala Leu
116 10 15 20 25
118 gcc gag gcg tac ccc tcc aag ccg gac aac ccg ggc gag gac gca cca 209
119 Ala Glu Ala Tyr Pro Ser Lys Pro Asp Asn Pro Gly Glu Asp Ala Pro
120 30 35 40
122 gcg gag gac atg gcc aga tac tac tcg gcg ctg cga cac tac atc aac 257
123 Ala Glu Asp Met Ala Arg Tyr Tyr Ser Ala Leu Arg His Tyr Ile Asn
124 45 50 55
126 ctc atc acc agg cag aga tat gga aaa cga tcc agc cca gag aca ctg 305
127 Leu Ile Thr Arg Gln Arg Tyr Gly Lys Arg Ser Ser Pro Glu Thr Leu
128 60 65 70
130 att tca gac ctc ttg atg aga gaa agc aca gaa aat gtt ccc aga act 353
131 Ile Ser Asp Leu Leu Met Arg Glu Ser Thr Glu Asn Val Pro Arg Thr
132 75 80 85
134 cgg ctt gaa gac cct gca atg tgg tgatgggaaa tgagacttgc tctctggcct 407
135 Arg Leu Glu Asp Pro Ala Met Trp
136 90 95
138 tttcctattht tcagcccata tttcatcggtg taaaacgaga atccacccat cctaccaatg 467
140 catgcagcca ctgtgctgaa ttctgcaatg ttttcccttg tcatcattgt atatatgtgt 527
142 gtttaaataa agtatcatgc attc 551

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Input Set : A:\111SEQ.txt

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145 <210> SEQ ID NO: 6
 146 <211> LENGTH: 97
 147 <212> TYPE: PRT
 148 <213> ORGANISM: Homo sapiens
 150 <400> SEQUENCE: 6
 151 Met Leu Gly Asn Lys Arg Leu Gly Leu Ser Gly Leu Thr Leu Ala Leu
 152 1 5 10 15
 154 Ser Leu Leu Val Cys Leu Gly Ala Leu Ala Glu Ala Tyr Pro Ser Lys
 155 20 25 30
 157 Pro Asp Asn Pro Gly Glu Asp Ala Pro Ala Glu Asp Met Ala Arg Tyr
 158 35 40 45
 160 Tyr Ser Ala Leu Arg His Tyr Ile Asn Leu Ile Thr Arg Gln Arg Tyr
 161 50 55 60
 163 Gly Lys Arg Ser Ser Pro Glu Thr Leu Ile Ser Asp Leu Leu Met Arg
 164 65 70 75 80
 166 Glu Ser Thr Glu Asn Val Pro Arg Thr Arg Leu Glu Asp Pro Ala Met
 167 85 90 95
 169 Trp

172 <210> SEQ ID NO: 7
 173 <211> LENGTH: 12
 174 <212> TYPE: RNA
 175 <213> ORGANISM: Homo sapiens
 177 <220> FEATURE:
 178 <221> NAME/KEY: misc_feature
 179 <222> LOCATION: (10)
 180 <223> OTHER INFORMATION: n is a u in the wildtype and c in the mutant
 182 <400> SEQUENCE: 7

W--> 183 **acaagcgacn gg** 12

186 <210> SEQ ID NO: 8
 187 <211> LENGTH: 9
 188 <212> TYPE: DNA
 189 <213> ORGANISM: Homo sapiens
 191 <220> FEATURE:
 192 <221> NAME/KEY: misc_feature
 193 <222> LOCATION: (5)
 194 <223> OTHER INFORMATION: n is a t in the wildtype and c in the mutant
 196 <400> SEQUENCE: 8

W--> 197 **cgacngggg** 9

200 <210> SEQ ID NO: 9
 201 <211> LENGTH: 12
 202 <212> TYPE: DNA
 203 <213> ORGANISM: Homo sapiens
 205 <400> SEQUENCE: 9
 206 **acaagcgacc gg** 12

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/937,899A

DATE: 09/03/2004
TIME: 10:33:45

Input Set : A:\111SEQ.txt
Output Set: N:\CRF4\09032004\I937899A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; N Pos. 10

Seq#:8; N Pos. 5

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/937,899A

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TIME: 10:33:45

Input Set : A:\111SEQ.txt

Output Set: N:\CRF4\09032004\I937899A.raw

L:183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:197 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0